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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/001,354	10/30/2001	Richard F. Lyon	FOV-056	1358	
	590 08/22/2003				
Andrew V. Smith			EXAMINER		
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Stateline, NV 89449				<u> </u>	
,			ART UNIT	1358 NER	
			2873		
			DATE MAILED: 08/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

,		Application No.	Applicant(s)	am
Office Action Summary		10/001,354	LYON ET AL.	
		Examiner	Art Unit	
		Alicia M Harrington	2873	
Period fo	The MAILING DATE of this communication app	pears on the cover sheet w	ith the correspondence addi	ress
A SH THE - Exte after - If the - If NC - Failu - Any	IORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a repl of period for reply is specified above, the maximum statutory period or the toright of the t	36(a). In no event, however, may a ny within the statutory minimum of thir will apply and will expire SIX (6) MON	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this com	munication.
1)🖂	Responsive to communication(s) filed on 24 I	<u>March 2003</u> .		
2a)□	This action is FINAL . 2b)⊠ Th	is action is non-final.		
3)	Since this application is in condition for allowa	ance except for formal mai	tters, prosecution as to the	merits is
Dispositi	closed in accordance with the practice under on of Claims	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
	Claim(s) <u>1-21</u> is/are pending in the application	l.		
	4a) Of the above claim(s) is/are withdraw			
1	Claim(s) is/are allowed.		•	
1	Claim(s) <u>1,2,4-7,14,15,17,19 and 20</u> is/are reje	cted.		•
	Claim(s) <u>3,8-13,16,18 and 21</u> is/are objected to			
	Claim(s) are subject to restriction and/or			
Application	on Papers	,		
1	The specification is objected to by the Examiner			
ן 10)⊠ ד	he drawing(s) filed on 30 October 2001 is/are:	a)⊠ accepted or b)☐ object	cted to by the Examiner.	
440.	Applicant may not request that any objection to the	drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
11)∐ T 	he proposed drawing correction filed on		sapproved by the Examiner.	
12)□ ∓	If approved, corrected drawings are required in rep			
	he oath or declaration is objected to by the Exa	aminer.		
	nder 35 U.S.C. §§ 119 and 120			
13)/	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).	
	All b) Some * c) None of:			
	1. Certified copies of the priority documents			
	2. Certified copies of the priority documents			
	B. Copies of the certified copies of the priorical application from the International Bures the attached detailed Office action for a list of the action for a list of t	eau (PCT Rule 17 2(a))		ge
	knowledgment is made of a claim for domestic			nlication)
a)	☐ The translation of the foreign language prov cknowledgment is made of a claim for domestic	isional application has bee	en received	plication).
Attachment(s	s)	,,	, .20 and/01 121,	
2) Notice 3) Informa	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	ımmary (PTO-413) Paper No(s) formal Patent Application (PTO-15	 2)
S. Patent and Trad TO-326 (Rev.	2.2.	on Summary	Part of Paper No. 8	

Art Unit: 2873

DETAILED ACTION

Allowable Subject Matter

Prosecution on the merits of this application is reopened on claims 1,2,4-7,14,15,17,19 1. and 20 are considered unpatentable for the reasons indicated below:

The following rejection based on Ogata et al (US 5,721,994) in view of Kitagishi (US 5,140,462) teaches the claimed invention.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1,2,4,5,14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over 3. Ogata et al (US 5,721,994) in view of Kitagishi (US 5,140,462).

Regarding claim 1, Ogata discloses a camera comprising correcting optics (13; see figure 1) disposed between a prism and an objective lens of a camera for compensating for spherical and coma aberrations (see col. 5 lines 50-55). Ogata discloses a single unit element and fails to specifically disclose at least two lenses makes up the correction unit.

In the same field of endeavor, Kitagishi discloses a camera including corrector optics (II; see col. 5, lines 10-19 and col. 9, lines 30-35) for correcting aberrations comprising two lenses (see figure 1). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata, to provide at least two lens elements for correcting aberrations, as taught by Kitagishi, since it is well known camera lens system corrector design

Art Unit: 2873

and provides a correction function for common aberrations that occur in camera imaging systems.

Regarding claim 2, Ogata, as discussed above, provides for a single unit element.

Kitagishi teaches a corrector optics comprising at least two lenses (II, see figure 1). Kitagishi further teaches the lenses comprise a positive power lens and negative power lens (see col. 13, lines 65-67; col. 14, lines 1-2 and col. 15, lines 5-15) with a convex side of a lens facing toward the object side. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata to include a corrector optics with a positive and negative lens where a convex side of the positive lens is being disposed toward the objective lens as claimed, as clearly suggested by Kitagishi, since the prior art teaches a positive and negative lens arrangement corrects for aberrations in cameras.

Regarding claims 4 and 14,Ogata discloses a camera comprising a prism being disposed between the objective lens and an image plane where a prism (13a) is generating aberration, and correcting optics (13; see figure 1) disposed between a prism and an objective lens of a camera for compensating for spherical and coma aberrations (see col. 5 lines 50-55). Ogata discloses a single unit element and fails to specifically disclose at least two lenses makes up the correction unit.

In the same field of endeavor, Kitagishi discloses a camera including corrector optics (II; see col. 5,lines 10-19 and col. 9,lines 30-35) for correcting aberrations comprising two lenses (see figure 1). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata, to provide at least two lens elements for correcting aberrations, as taught by Kitagishi, since it is well known camera lens system corrector design

Art Unit: 2873

and provides a correction function for common aberrations that occur in camera imaging systems.

Regarding claims 5 and 15, Ogata, as discussed above, provides for a single unit element. Kitagishi teaches a corrector optics comprising at least two lenses (II, see figure 1). Kitagishi further teaches the lenses comprise positive power lens and negative power lens (see col. 13, lines 65-67;col. 14,lines 1-2 and col. 15, lines 5-15) with a convex side of a lens facing toward the object side. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata to include a corrector optics with a positive and negative lens where a convex side of the positive lens is being disposed toward the objective lens as claimed, as clearly suggested by Kitagishi, since the prior art teaches a positive and negative lens arrangement corrects for aberrations in cameras.

4. Claims 6 and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata In view of Kitagishi, further in view of Kono et al (US 6,157,781).

Regarding claims 6-7, Ogata and Kitagishi fail to specifically disclose the camera includes infrared rejecting filters. However, it is well known in the art to include this element, as taught by Kono.

In the same field of endeavor, Kono disclose a camera with a rear/compensator lens attachment that is inserted between the objective lens and prism (see figure 4). This compensator lens comprises infrared rejection filters (see col. 3, lines 48-51 and col. 6, lines 20-25). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata and Kitagishi, to include infrared rejecting filter, as taught by Kono, to cut off the infrared component in the image when detecting a visible image.

Art Unit: 2873

5. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata In view of Kitagishi, further in view of Inabata (US 5,034,763).

Regarding claim 17, Ogata and Kitagishi fail to specifically disclose an embodiment where the prism is viewfinder beam splitter.

In the same field of endeavor, Inabata discloses a camera system where the prism is viewfinder beam splitter prism with a positive and negative lens (L1, L2) as corrector optics for correcting (col. 8,lines 1-10; see col. 9, lines 42-47) aberrations. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata and Kitagishi, as taught by Inabata, to provide a system for correcting aberration for improving image quality in a view finder system.

6. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata et al (US 5,721,994).

Regarding claim 19, Regarding claim 1, Ogata discloses a camera comprising correcting optics (13; see figure 1) disposed between a prism and an objective lens of a camera for compensating for spherical and coma aberrations (see col. 5 lines 50-55). Ogata discloses a single unit element and fails to specifically disclose modular corrector optics (separable optics) with a front and rear mount. Although, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata, since it has been held that constructing a formerly integral structure in various elements involves only routine skill in the art. Nerwin v. Erlichman, 168 USPQ 177,179.

7. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ogata et al (US 5,721,994), as applied above in claim 19, further in view of Kitagishi (US 5,140,462).

Regarding claim 20, Ogata discloses a single unit element and fails to specifically disclose at least two lenses makes up the correction unit.

In the same field of endeavor, Kitagishi discloses a camera including corrector optics (II; see col. 5,lines 10-19 and col. 9,lines 30-35) for correcting aberrations comprising two lenses (see figure 1). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Ogata, to provide at least two lens elements for correcting aberrations, as taught by Kitagishi, since it is well known camera lens system corrector design and provides a correction function for common aberrations that occur in camera imaging systems.

Allowable Subject Matter

- 8. Claims 3,8-13,16,18,21 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9. Regarding claims 3, 13, 18 and 21, prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the dependent claims, in such manner that a rejection under 35 U.S.C 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in independent claims, which include the second index of refraction being higher than the first index of refraction and second Abbe number being lower than the first Abbe number as claimed.

Regarding claims 5 and 16, prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the dependent claims, in such manner that a

Art Unit: 2873

rejection under 35 U.S.C 102 or 103 would be proper. The prior art fails to teach a combination

of all the claimed features as presented in independent claims, which include the system for use

with a color separation prism as claimed.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Alicia M Harrington whose telephone number is 703 308 9295.

The examiner can normally be reached on Monday - Thursday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Georgia Epps can be reached on 703 308 4883. The fax phone numbers for the

organization where this application or proceeding is assigned are 703 308 7724 for regular

communications and 703 308 7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 308 0956.

Alicia M Harrington Examiner

Art Unit 2873

July 21, 2003

Supervisory Patent Examiner

Page 7

Technology Center 2800